

Pattern (a\*|b)x

This 'a' is searched  
 six times, before  
 the pattern is  
 successfully  
 matched

Character string							
0	1	2	3	4	5	6	7
a	a	a	a	a	a	b	x
Anchor 0	m	m	m	m	m	f	
Anchor 1		m	m	m	m	f	
Anchor 2			m	m	m	f	
Anchor 3				m	m	f	
Anchor 4					m	f	
Anchor 5						m	f
Anchor 6							M

m = matching succeeding

f = matching failed

M = matching successful

Figure 1

Prior Art

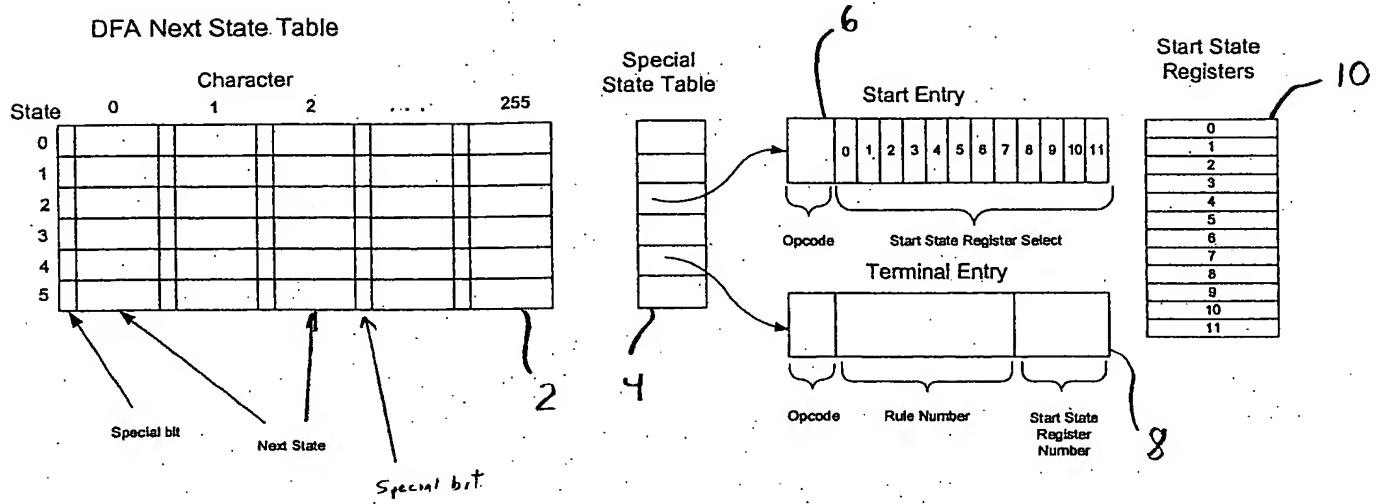


Figure 2

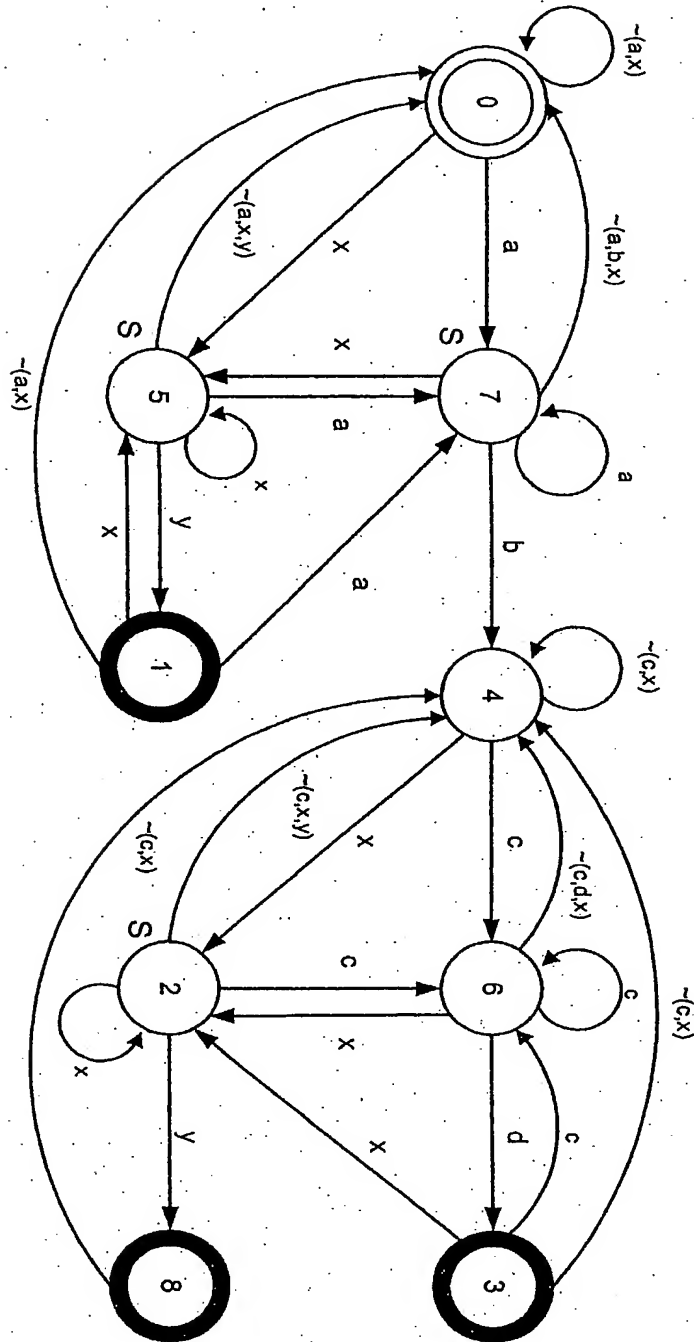


Figure 3

**DFA Next State Table**

Current State	Current Character	Next State
0	0	1
1	1	2
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...

next state

special bit

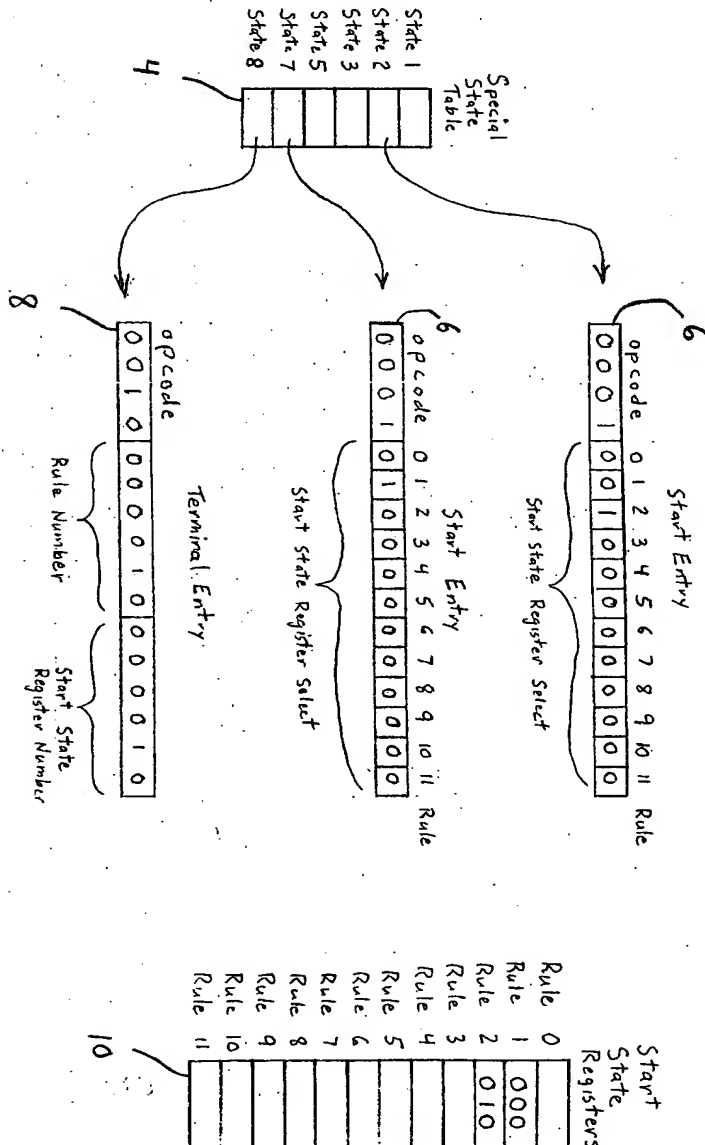


Figure 4

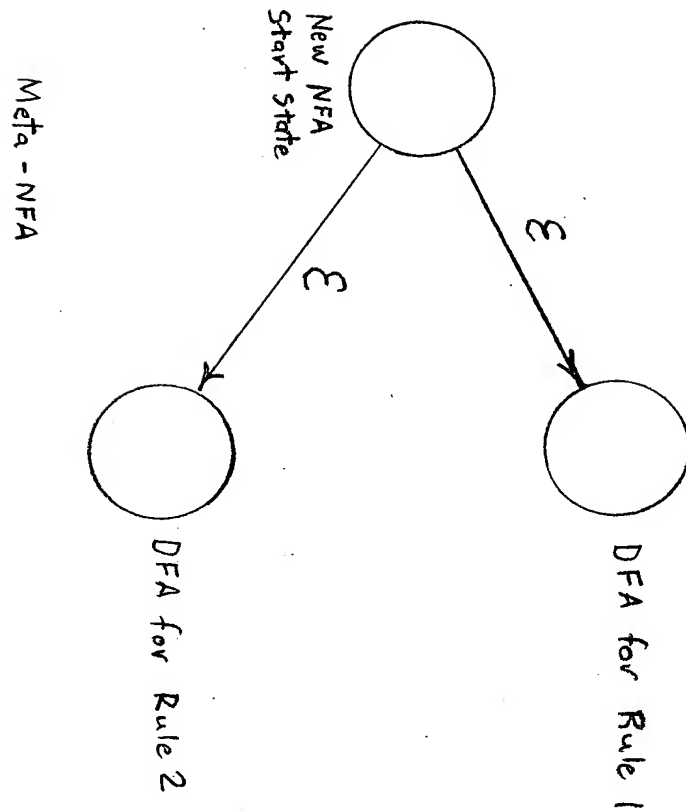


Figure 5

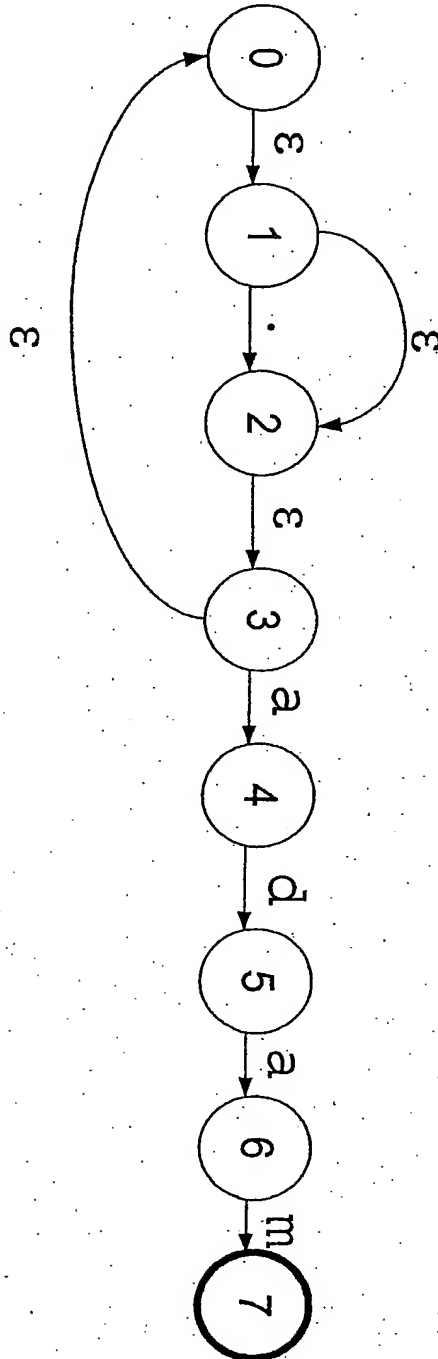


Figure 6

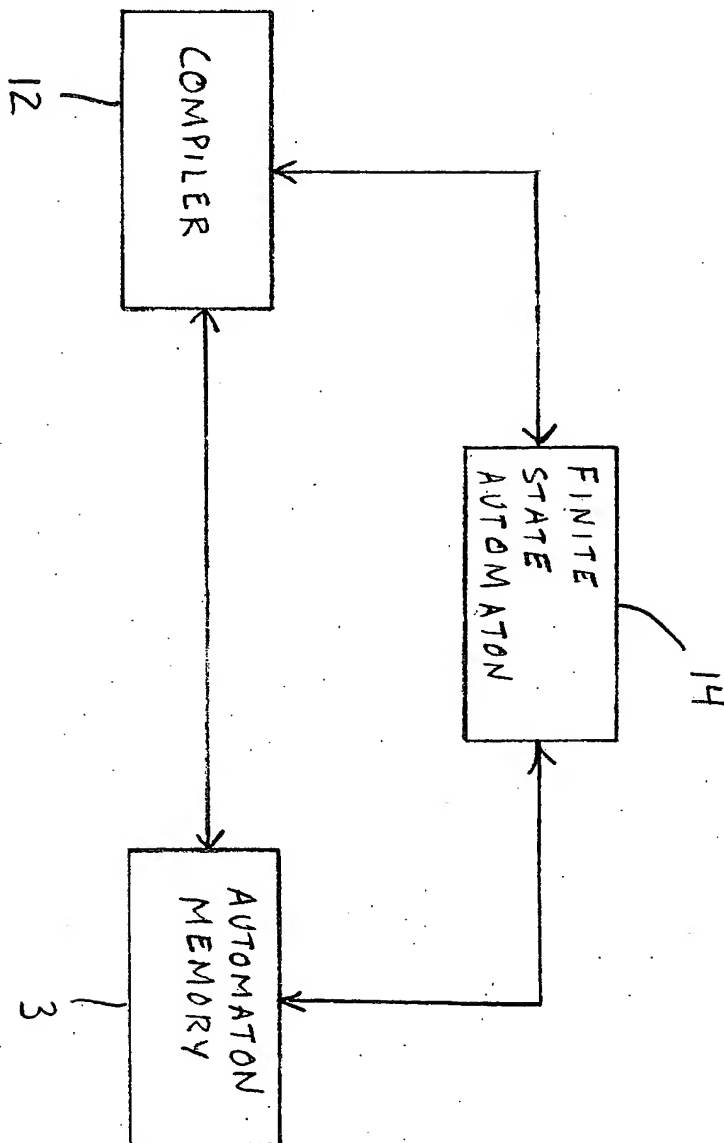


Figure 7